

| PROJECT DESIGN AND CONSTRUCTION       |  | Maximum Value | 30% Project Estimate | 60% Project Estimate | 90% Project Estimate | Final Project Value |
|---------------------------------------|--|---------------|----------------------|----------------------|----------------------|---------------------|
| <b>1 Site Analysis &amp; Planning</b> |  |               |                      |                      |                      |                     |
| <input type="checkbox"/>              | A. Design all open spaces to work together to manage stormwater and improve the aesthetics of the site.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | B. From the outset of the development project, integrate site, landscape, soil and materials management into architectural and construction sequences. Show clearly in each phase of design and construction documents.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | C. Utilize beneficial reuse practices for specified construction materials.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | C. Stockpile both fill and topsoil on-site and reuse. Avoid exporting or importing soils.  | 1             |                      |                      |                      |                     |
| <b>2 Stormwater Management</b>        |  |               |                      |                      |                      |                     |
| <input type="checkbox"/>              | A. Connect to the regional stormwater treatment area, or share stormwater management practices with neighboring parcels.   | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | B. Use drought resistant plantings and eliminate irrigation other than collected rainwater.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | C. Design your stormwater treatment system to avoid the direct concentrated discharge of stormwater into the river and stormwater treatment areas, providing features (swales, raingardens) that detain first flush and detain sediment.   | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | D. Design landscape planting materials, soils and sub-soils for infiltration and evapotranspiration of rainwater. Note that soils and subsoils placed above a remedial cover can serve to store and evapotranspire collected stormwater.   | 1             |                      |                      |                      |                     |
| <b>3 Natural Landscape</b>            |  |               |                      |                      |                      |                     |
| <input type="checkbox"/>              | A. Specify native plant and tree species from the Menomonee Valley Sepcies Palette for at least 80% of planted area.   | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | B. Exclude all invasive exotic species identified by the Invasive Plant Association of Wisconsin ( <a href="http://www.ipaw.org">www.ipaw.org</a> ).   | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | C. Where rooting area will be limited, use strategies such as connected planting beds, rooting breakouts under walkways floating on root-permeable soils to extend rooting space and increase plant vigor. Establish engineering specifications for these strategies, drainage patterns, and installation of structural soils as part of the structure and site grading plans. | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | D. Use Integrated Pest Management practices and appropriate plantings to eliminate the use of pesticides, herbicides and fertilizers.  | 1             |                      |                      |                      |                     |
| <b>4 Site Lighting</b>                |  |               |                      |                      |                      |                     |
| <input type="checkbox"/>              | A. Provide site lighting appropriate for the security needs of the site while maintaining an overall "low-lighting profile" for the project.   | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | B. Use high efficiency lighting (metal halide or high pressure sodium lamps) with low cut off angles and down-lighting for landscaping.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | C. Utilize reflective-type lighting fixtures to reduce or eliminate glare and provide safer, more human-scaled nightscapes.  | 1             |                      |                      |                      |                     |
| <input type="checkbox"/>              | D. To reduce dependence on high-wattage electrical lighting at night, use light colored or reflective edges along driveways or walkways.   | 1             |                      |                      |                      |                     |

# Menomonee Valley Sustainable Design Guidelines

## 5 Materials Specification

|                          |  |   |  |  |  |
|--------------------------|--|---|--|--|--|
| <input type="checkbox"/> | A. Use Wisconsin Green Building Alliance's Wisconsin Built Directory to locate sources of the following building materials, and achieve the following goals: |   |  |  |  |
|                          | i 25% of materials have post-consumer and post-industrial recycled content.  | 1 |  |  |  |
|                          | ii 10% of materials are salvaged and reused (direct reuse; not recycled content).  | 1 |  |  |  |
|                          | iii 25% of all wood and wood-based materials and products used in the project are US Forest Stewardship Council-certified.                                   | 1 |  |  |  |
|                          | iv 20% of materials and products (regardless of content) are manufactured within a 500-mile radius.  | 1 |  |  |  |
| <input type="checkbox"/> | B. Specify mold- and moisture-inhibiting construction materials.   | 1 |  |  |  |
| <input type="checkbox"/> | C. Use low-VOC sealants and adhesives.   | 1 |  |  |  |
| <input type="checkbox"/> | D. Use paints and coatings that are certified by Green Seal for VOC and chemical component limits.   | 1 |  |  |  |
| <input type="checkbox"/> | E. Use composite wood and agrifiber products that do not contain added urea-formaldehyde resins.   | 1 |  |  |  |

## 6 Waste and Recycling

|                          |   |   |  |  |  |
|--------------------------|---|---|--|--|--|
| <input type="checkbox"/> | A. Implement a Construction and Demolition Waste Management Plan to recycle and/or salvage at least 80% of construction, demolition and land clearing waste, for reuse or resale. Include waste reuse and recycling in project specifications. Calculations can be done by weight or volume, but must be consistent throughout. This plan should cover:   | 2 |  |  |  |
|                          | <ul style="list-style-type: none"> <li>● Identification of a Plan Manager.</li> <li>● Identification of opportunities to reduce site disturbance and minimize environmental impact of construction activities.</li> <li>● A list of materials to be separated for recovery and designation of areas for collection.</li> <li>● A plan to educate workers about separation requirements</li> <li>● Procedures for waste auditing.</li> <li>● On-site soils management, including areas of concern, types of contamination and disposal or encapsulation methods.</li> <li>● List sorting/separation/tracking rules.</li> </ul> |   |  |  |  |

## 7 Cost and Maintenance

|                          |  |   |  |  |  |
|--------------------------|--|---|--|--|--|
| <input type="checkbox"/> | A. While meeting or exceeding structural, safety, and universal access standards, reduce total project costs (through construction) as costed in the 90% plans, by 15% of initially agreed project budget. Methods such as timing of construction, selection of materials, exploration of alternatives, site layout, construction equipment and techniques, construction management, beneficial reuse, structure of contracts, etc. can all reduce costs. One point awarded for first 15% reduction and each additional 10% reduction. | 1 |  |  |  |
| <input type="checkbox"/> | B. Resulting structures demonstrate estimated maintenance costs significantly lower than comparable City structures due to materials and construction techniques. Documented based on reference projects.  | 1 |  |  |  |

|  | Sub-Totals                 | Maximum Value | 30% Project Estimate | 60% Project Estimate | 90% Project Estimate | Final Project Value |
|--|----------------------------|---------------|----------------------|----------------------|----------------------|---------------------|
|  | 1. Site Analysis           | 4             | 0                    | 0                    | 0                    | 0                   |
|  | 2. Stormwater Management   | 4             | 0                    | 0                    | 0                    | 0                   |
|  | 3. Natural Landscaping     | 4             | 0                    | 0                    | 0                    | 0                   |
|  | 4. Site Lighting           | 4             | 0                    | 0                    | 0                    | 0                   |
|  | 5. Materials Specification | 8             | 0                    | 0                    | 0                    | 0                   |
|  | 6. Waste and Recycling     | 2             | 0                    | 0                    | 0                    | 0                   |
|  | 7. Cost and Maintenance    | 2             | 0                    | 0                    | 0                    | 0                   |
|  | <b>Totals</b>              | <b>28</b>     | <b>0</b>             | <b>0</b>             | <b>0</b>             | <b>0</b>            |
|  | <b>Percent Compliant</b>   | <b>100%</b>   | <b>0%</b>            | <b>0%</b>            | <b>0%</b>            | <b>0%</b>           |
|  | <b>Compliance Target</b>   | <b>85%</b>    | <b>24</b>            | <b>24</b>            | <b>24</b>            | <b>24</b>           |

|            |       |                 |
|------------|-------|-----------------|
| Signed by: | Date: | Owner's Manager |
| Signed by: | Date: | Project Manager |
| Signed by: | Date: | Lead Architect  |
| Signed by: | Date: | Lead Engineer   |